

FIG. 2a

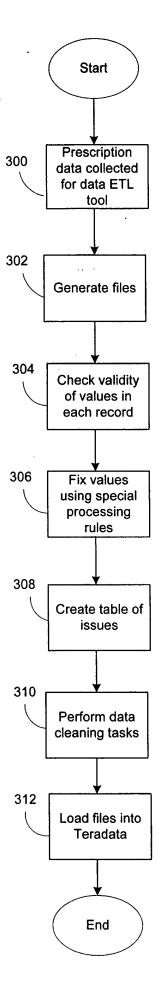


FIG. 3

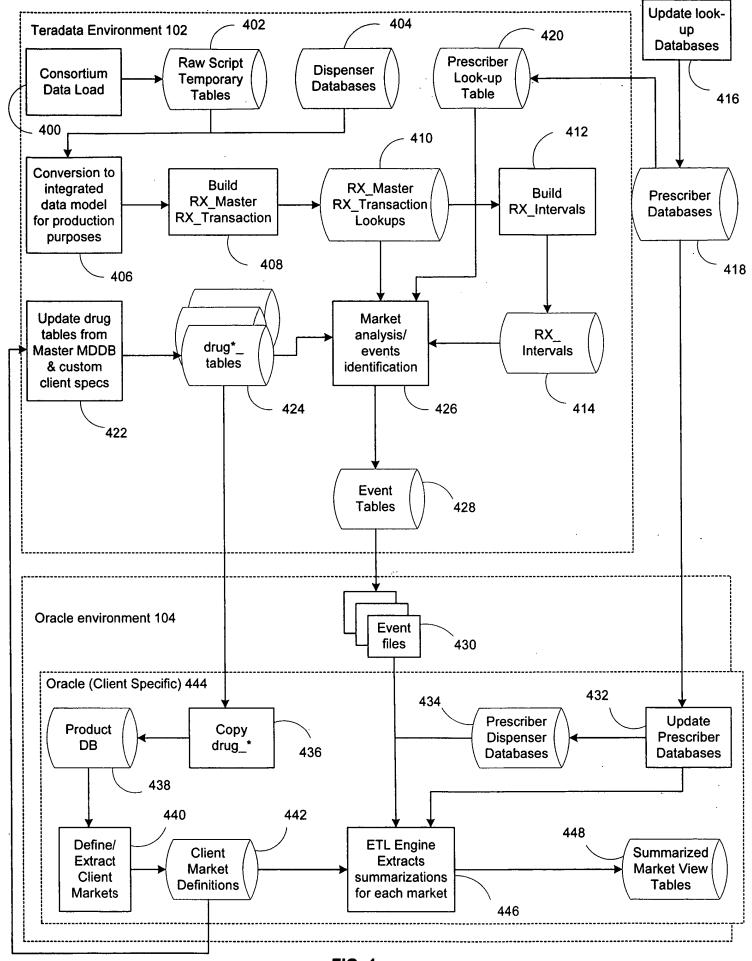
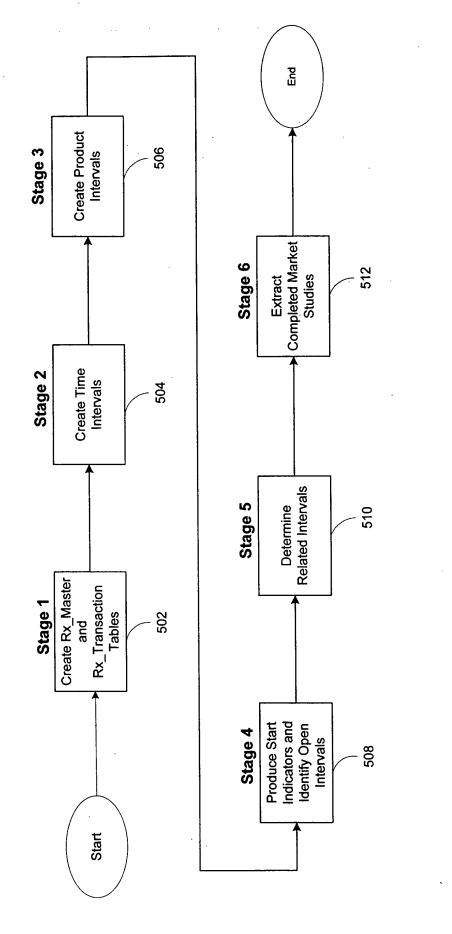


FIG. 4



200

FIG.

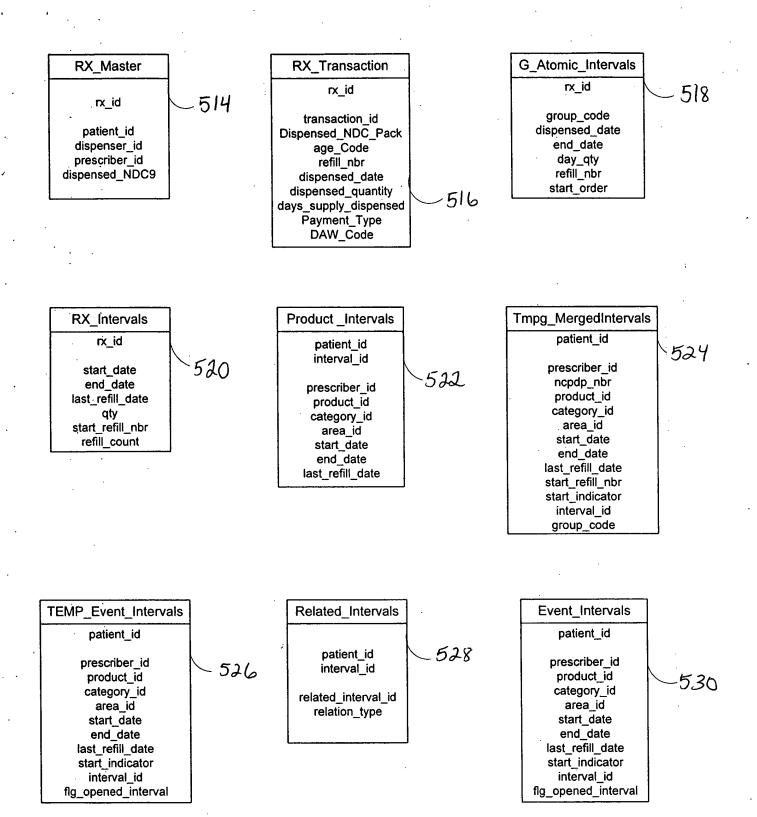


FIG. 5a

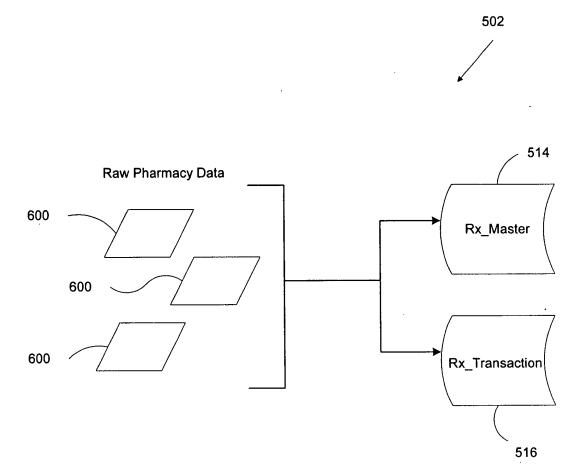


FIG. 6

RX-MASTER					
Column Name	Data Type	Null Option	Description		
rx_id			Primary key. Keys this table to RX Transaction.		
patient_id			A unique identifier for the current anonymous patient. Details about the patient, including birth year and gender, are stored separately in a Patient table. The Patient table is keyed to this <i>patient_id</i> as is the Patient Identifier used by the Dispenser for this patient		
dispenser_id			A unique identifier which indicates the pharmacy that dispensed the product to the patient. Dispenser_id is used to link to the dispenser table and contains details about the dispenser/pharmacy including address, chain affiliations, store affiliations and NCPDP number. Currently, the dispenser_id is the pharmacy's NCPDP number but this may be changed at some point because not all data providers apply NCPDP numbers		
prescriber_id		-	Identifies the prescribing physician. This is a sequentially generated identifier. The xREF_DEA table provides a look-up between the <i>prescriber_id</i> and the DEA number. In the future, another " xREF " table will provide a direct map between the <i>prescriber_id</i> and the Dendrite UMP databases.		
dispensed_NDC9			Identifies the product dispensed. The number is the first 9 digits of an 11-digit format National Drug Code (NDC code). The first 5 digits of this number identifies the manufacturer. The next 4 digits provide the manufacturer's product number. Dispensed_NDC9 is stored as an integer, thus the leading 0's are implicit. Since the last 2 digits of an 11-digit NDC number just specify a given product's package code, we can safely assume that all prescriptions with the same first 9 digits are, in fact, the same product. Note: any product with an NDC code which doesn't follow the NDC11 to NDC9 roll-up cannot be analyzed using ScripMaxIQ. This includes medical devices.		

Figure 6a

	RX-TRANSACTION					
Column Name	Data Type	Null Option	Description			
rx id	Integer	Not Null	Primary key. Keys this table to RX Master.			
transaction_id	Decimal (11,0)	Not Null	Uniquely identifies the current purchase transaction. Since prescription ID's aren't required for consortium data, this ID is derived by combining the four elements which make up rx_id as well as $refill_no$ and $dispensed_date$.			
Dispensed_NDC_Package_Code	Smallint		Holds the last 2 digits that had been removed to create Dispensed_NDC9 From the current prescriptions 11-digit NDC Code.			
REFILL_NBR	Smallint		This is the refill sequence number from the original prescription. The first null prescription has a refill number of 0.			
dispensed_date	Date Format yyyy-mm-dd	Not null	Specifies the date that the current transaction occurred.			
dispensed_quantity	Decimal (10,2) Compress 30		Indicates the number of dosages (pills, capsules, etc.) that were dispensed			
DAYS_SUPPIED_DISPENSED	Smallint Compress 30		Shows the number of days that this dispensed medication is scheduled to last, i.e. 60 pills @ 2 per day = 30 days. There are values for days_supply_dispensed which don't match the day supply but indicate other things. For example, a value of "98" or "99" indicates that a given product was dispensed on an "as needed" basis.			
Payment_type	Varchar (1) Character set latin not case specific		Specfies the form of payment used to purchase this medication, i.e., cash, medical insurance or Medicare			
DAW_Code	Varchar (2)	Character	Shows whether the dispenser provided the exact product specified on the prescription or a substitute			

Figure 6b

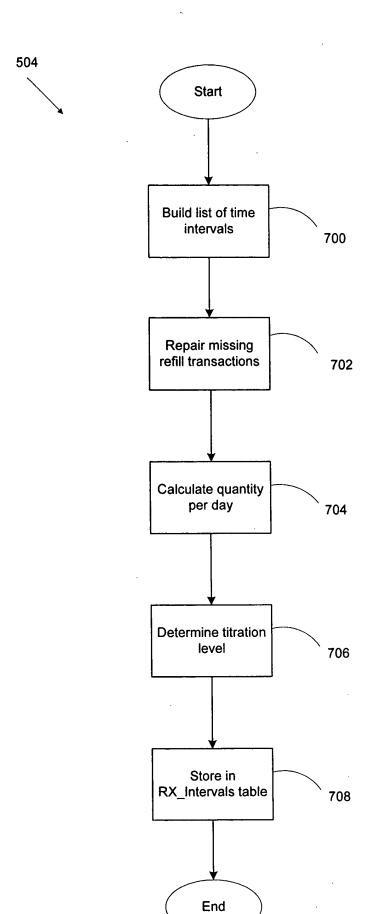


FIG. 7

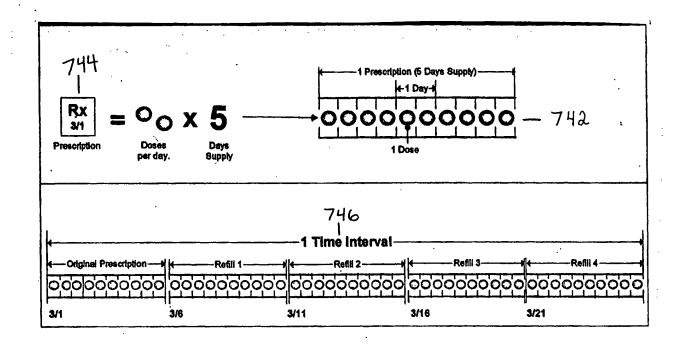


FIG. 7a

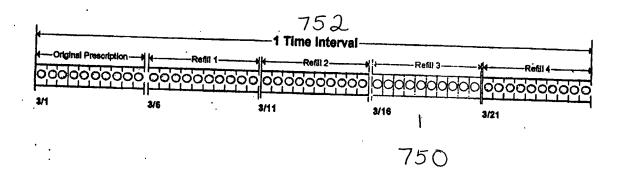


FIG. 7b

RX_Interval					
Column Name	Data Type	Null Option	Description		
rx_id			Primary Key.		
start_date			Indicates the start of the current refill's treatment cycle. Calculated from the Rx purchase date.		
end_date			Indicates the end of the current refill's treatment cycle. Calculated by adding the days_supply of the medication to its purchase date.		
last_refill_date			last_refill_date is the last date within this interval that the the patient physically refilled an Rx for the same product. The actual date the patient stopped taking the product will be sometime between this date and end_date, which is last_refill_date plus days_supply taken from the last refill (which could be different from the days_supply for all previous refills on a prescription).		
qty			Refers to quantity per day of the medication. This is a fractional number.		
start_refill_nbr			Stores the refill number of the earliest transaction in		

FIG. 7c

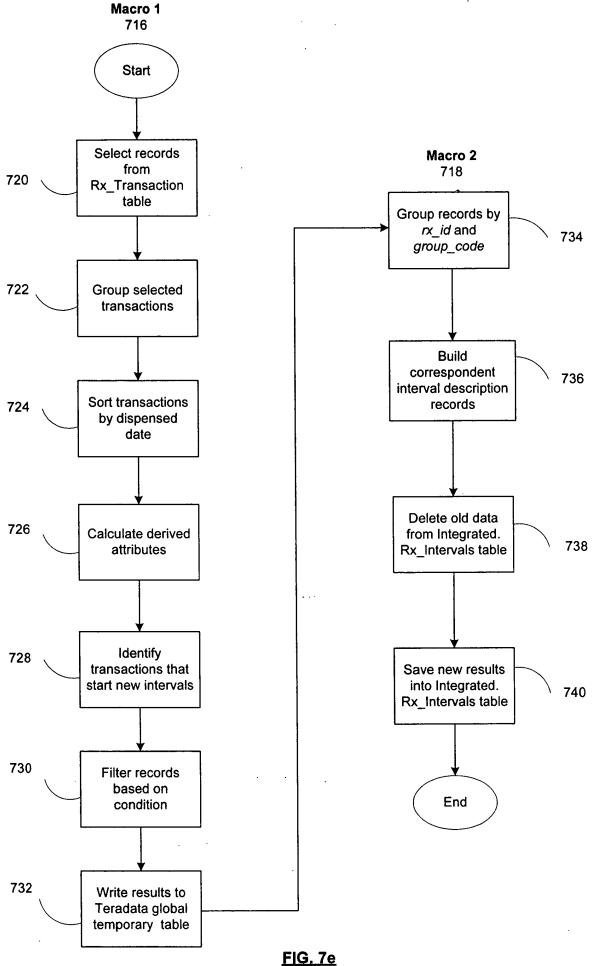
710 Rx Transaction Table Entries

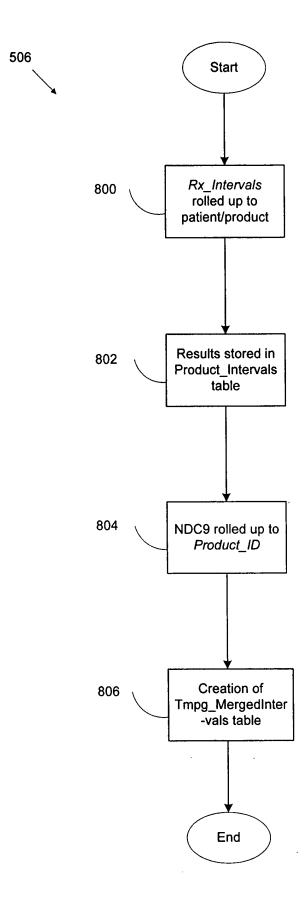
Rx id	Transaction Id	Transaction Id Dispensed ndc Refill no	Refill no	Dispensed	Dispensed	Days	Payment Type DAW	DAW
714	I	package code			QTY	Supply		
469,814,736	469.814.736 1.442,997,754	0	2	87	09	30	T	0
469.814.736	469.814.736 787.315.098	80	3	2000-06-01	09	30	T	0
469.814.736	469,814,736 627,226,368	80	4	2000-07-03	30	15	T	0
469,814,736	469,814,736 469,814,736	80	0	2000-12-11	09	30	T	0
469.814.736	469.814.736 633,143,033	80	-	2001-01-30 60	09	30	T	0

712 Corresponding RX Interval Records

2000-01-2
2000-01-28 2000-07-18 2000-12-11 2001-02-30

FIG. 7d





<u>Fig. 8</u>

Product_intervals					
Column Name	Data Type	Nuli Option	Description		
patient_id			patient_id and interval_id are combined to create the		
interval_id		Small int	primary key. tnterval_id is a small int and restarts for each patient.		
prescriber_id			Identifies the prescribing physician. This is a sequentially generated identifier. The xRef_DEA table provides a look-up between the prescriber_id and the DEA number. In the future, another "xRef" table will provide a direct map between the prescriber_id and the Dendrite UMP database.		
product_id			Corresponds to a combination of a unique product trade name and classification from NDDB. Every unique combination is given a product ID. Product IDs can also be custom-defined. Custom-defined product have negative product IDs.		
category_id			Category_ID is the Therapeutic Category that this product belongs to. This is a narrow grouping of products. Products within the same Therapeutic Category are considered generally equivalent to one another, in other words they compete amongst each other. The Category_ID corresponds to the class_id part of a product's Generic Product Identifier (GPI) in the MDDB Database. Classes can also be custom-defined.		
area_id			Identifies the Therapeutic Area that this product belongs to. This is a broad grouping of comparable products. That's to say, products between which switch events are possible. If two products are not in the same Therapeutic Area, then they aren't considered switch candidates.		
start_date			Indicates the start of the current refill's treatment cycle. Calculated from the Rx purchase date.		
end_date			Indicates the end of the current refill's treatment cycle. Calculated by adding the days_supply of the medication to start_date.		

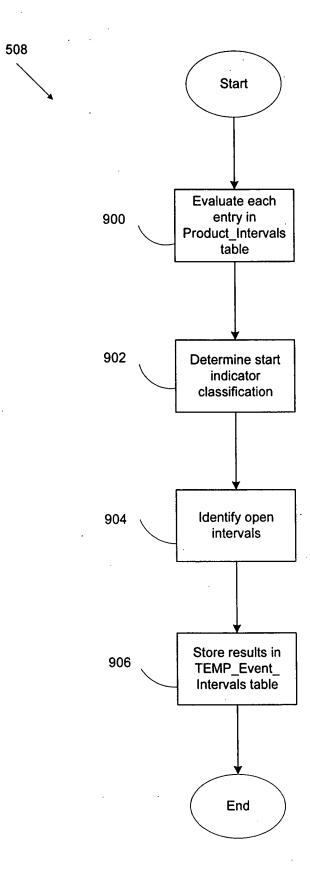
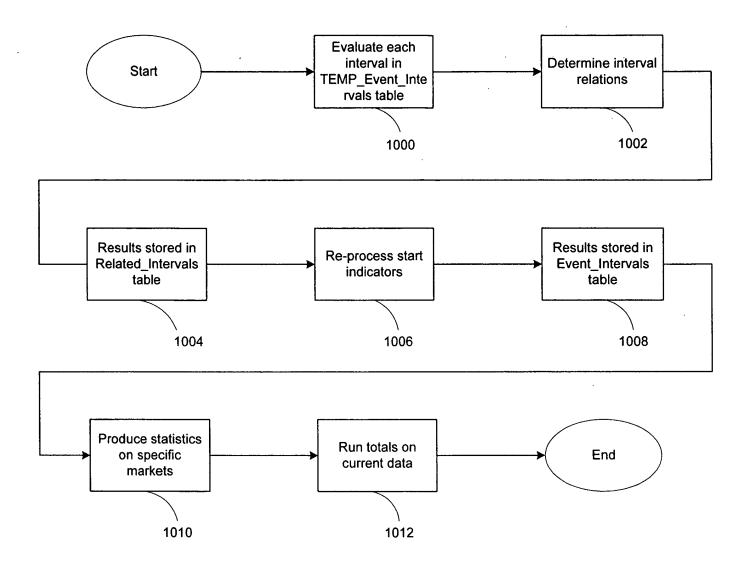
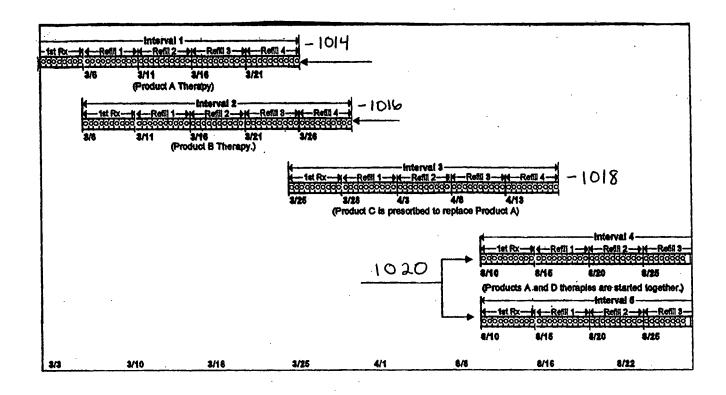


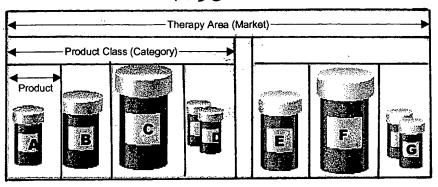
FIG. 9

Value	Name	Description	
T	Area Start	First time the patient has taken any product in this therapeutic area	
М	Category Start	First time the patient has taken any product in this therapeutic category	
В	Product Start	First time the patient has taken this product	
		The patient is taking this product after not taking this product anytime in	
R	Restart	the previous 90 days	
X	Intermittent	None of the above conditions met. Indicates intermittent use	





F1G. 10a



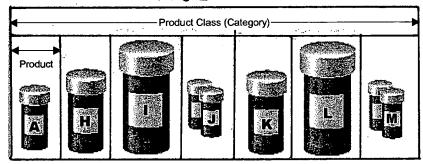
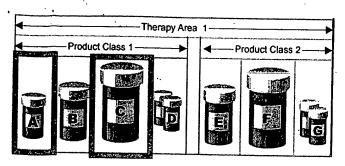
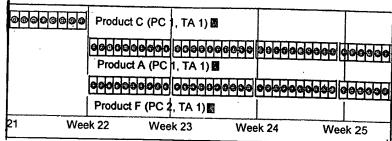
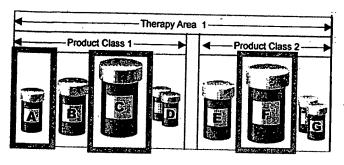
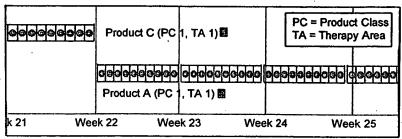


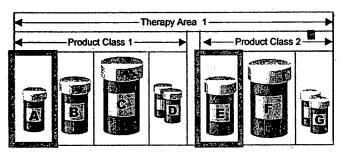
Figure 10b.

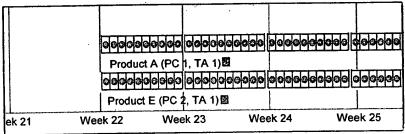


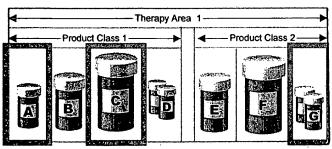












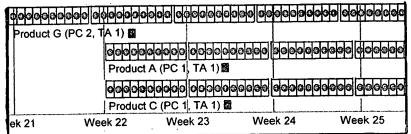
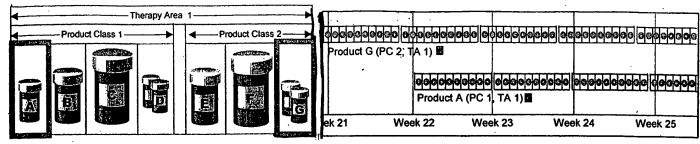
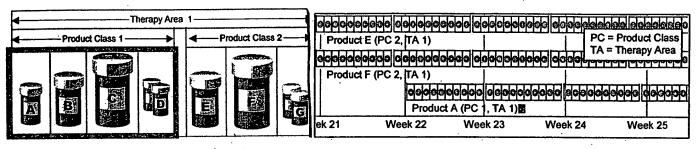
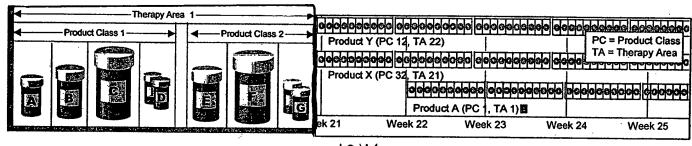
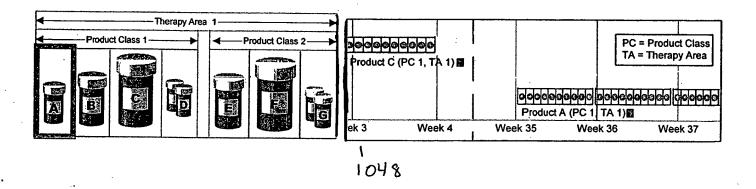


Figure 10 C









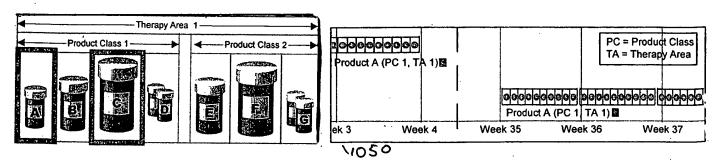
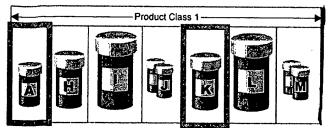
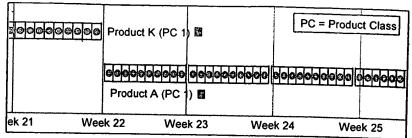
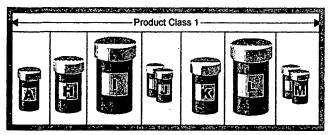


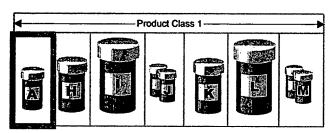
Figure 10d

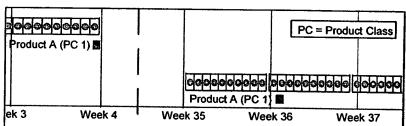


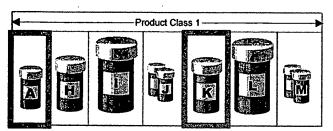




			PC	= Product Class
		00000000000000000000000000000000000000		
ek 21	Week 22	Week 23	Week 24	Week 25







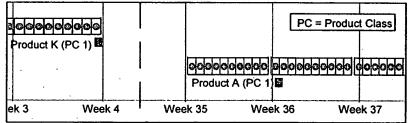


Figure 10e

FIG. 11

End

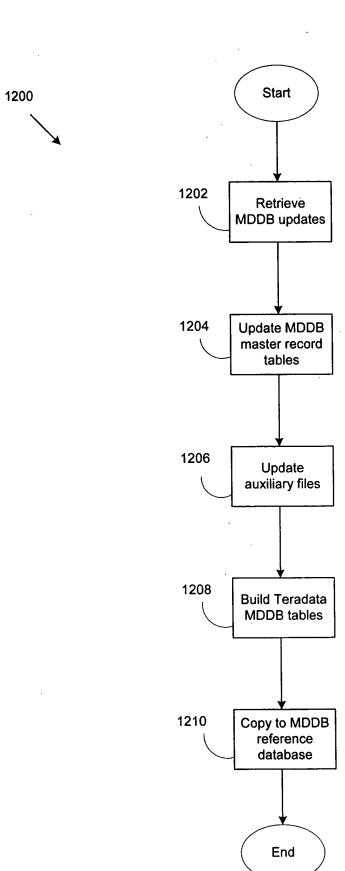


FIG. 12

Teradata MSA Geography tables

L_DESIGNATED_MARKET_AREA

dma_code market_area

CONGRESSIONAL_DISTRICT METROPOLITAN_STATIST ICAL_AR L_POPULATION_LEVEL population_level_code state_code statistical_area_code district_code description statistical_area_type congressman_first_name consolidated_msa_code congressman_last_name population_level_code party_affiliation state_code office_address metropolitan_area_name L_PREFERRED_POSTAL_CODE phone_nbr internet_address preferred_postal_code description METROPOLITAN_TERRITORY 42 L_STATE postal_code state_code state_code L_POSTAL_CODE_TYPE state_name county_name postal_code_type fips_code county_fips_code contact_indicator area_code description time_zone daylight_savings_time latitude longitude X_REF_DMA_STATE statistical_area_code dma_code dma code preferred_postal_code state code district_code postal_code_type

Figure 13

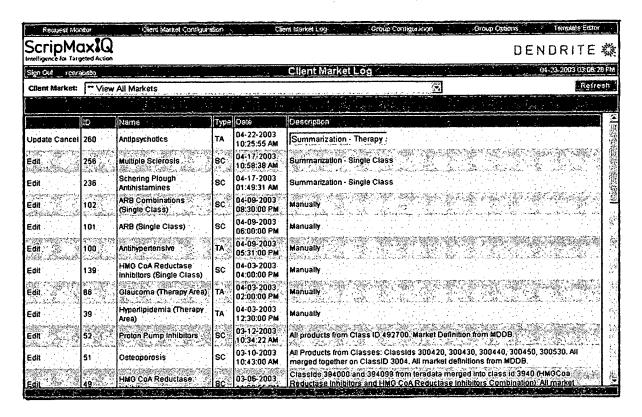
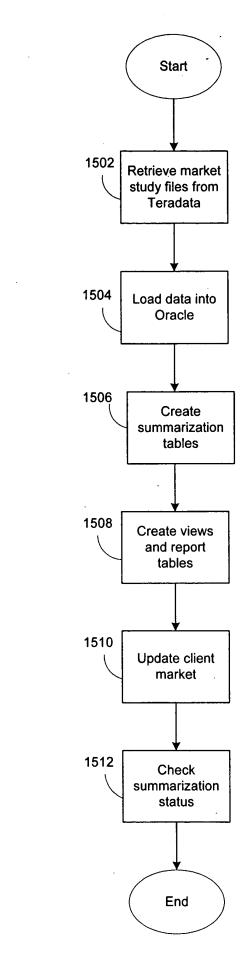


Figure 14



1500

FIG. 15

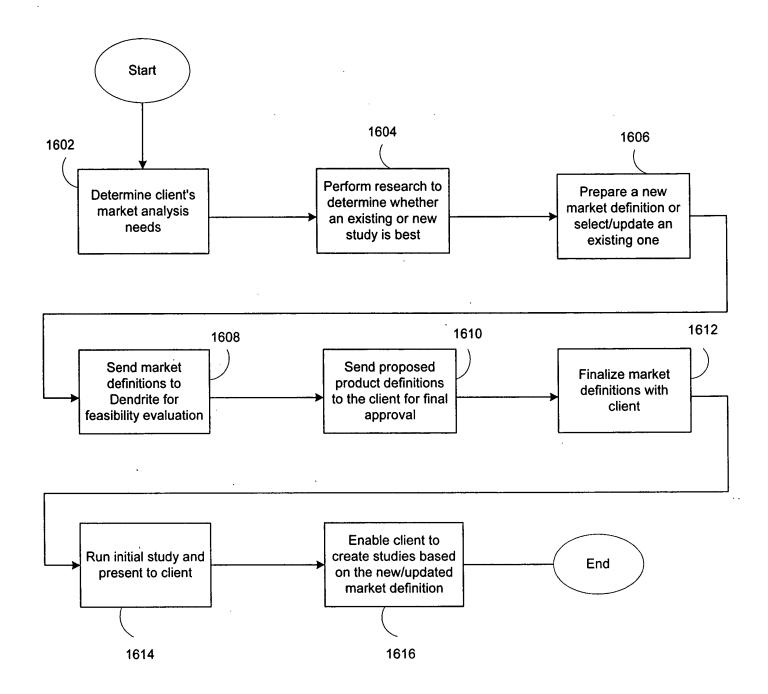


FIG. 16

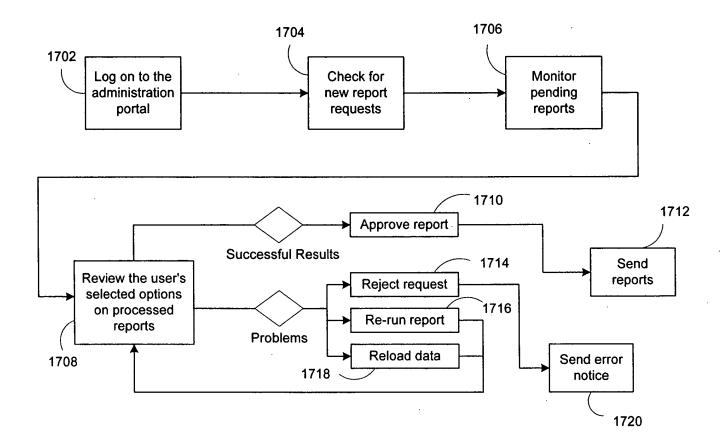


FIG. 17

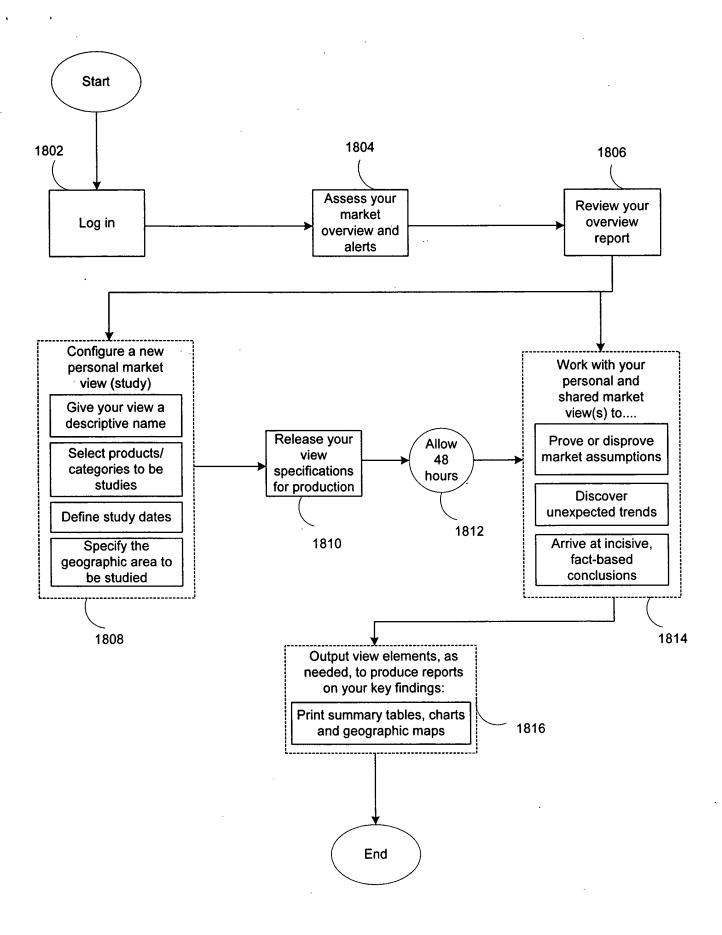
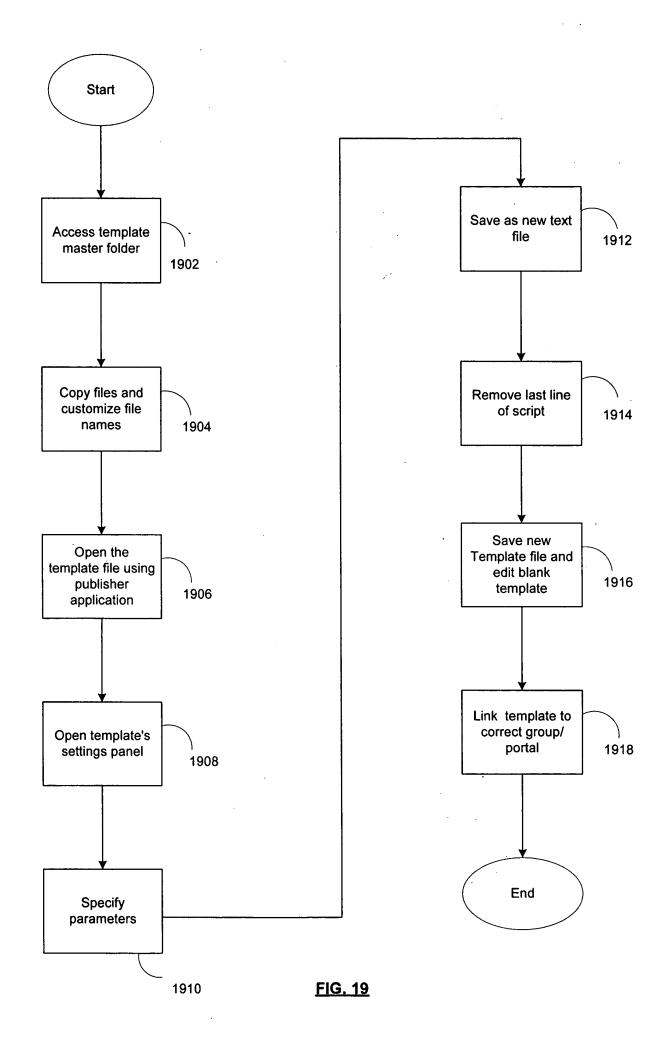
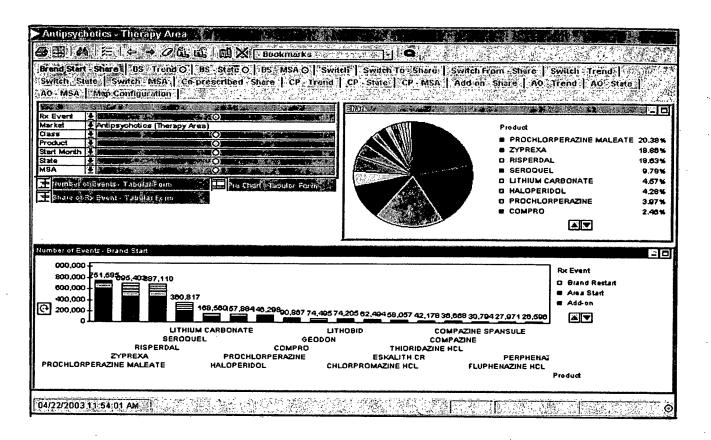


Fig. 18





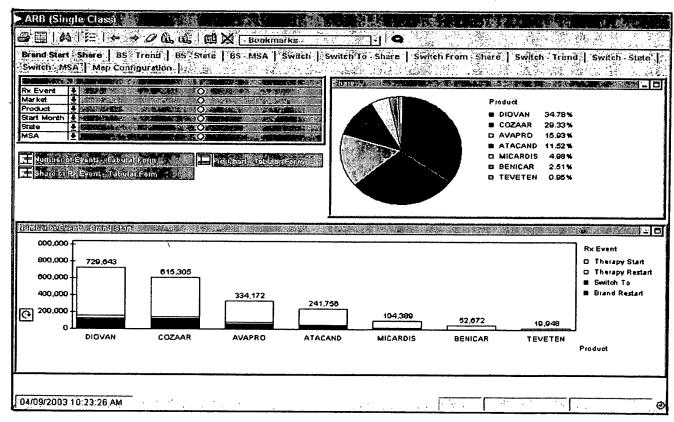
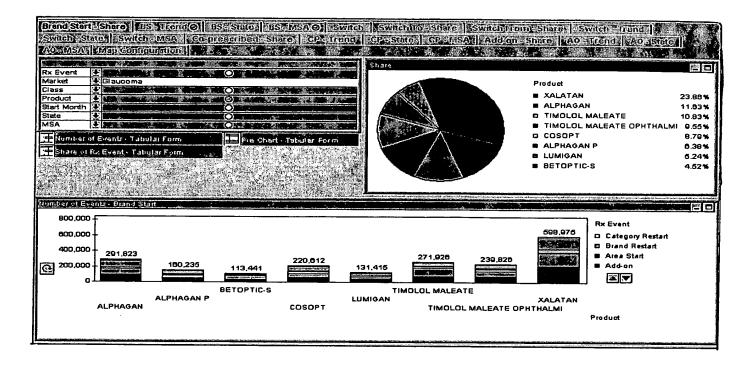


Figure ZOA



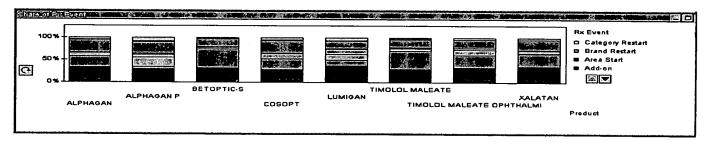


Figure 20 b

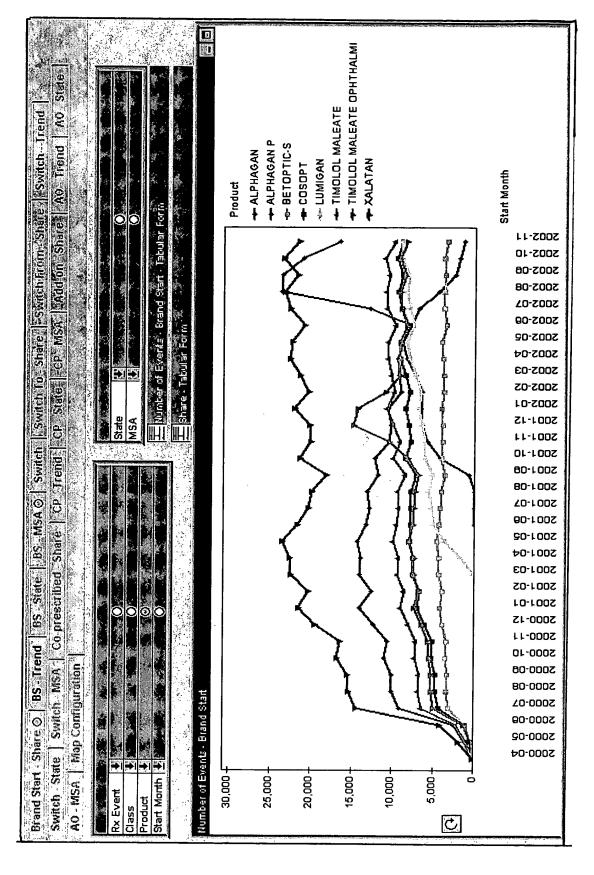


Figure 20C

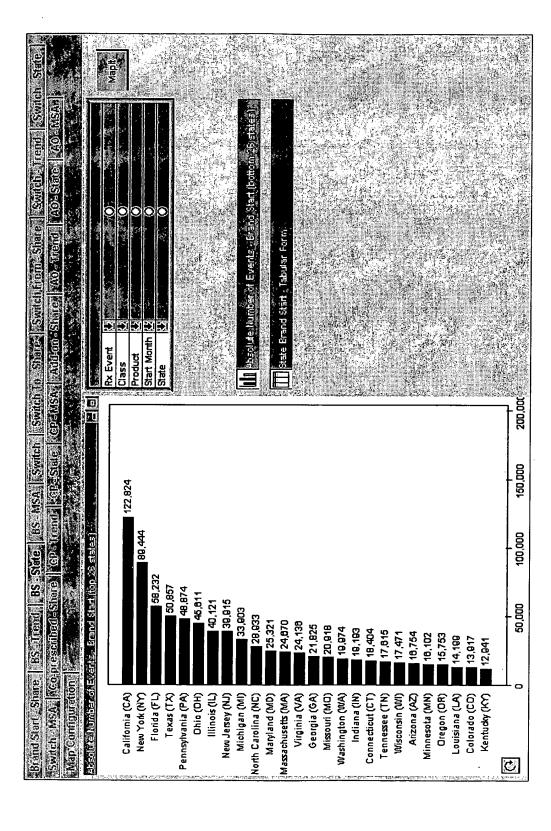


Figure 20d

Brand Start - Share @ 1285 - Trend @ 1285 - State 1285 - MSA Switch Switch To - Share Switch From Switch - State 1205 - MSA Add-on-	ate BS WSA ed Share CP	Switch Switch	hTo-Share de-Rop-M	Switch F		Switch - T	AO: State
AO-MSA Map Configuration:							
Number of MSA Events - Brand Start							
MSA	Absolute Vper Total Population	dial Population	Rx Event	I	0		
lotal .	2,028,253		Class	#	0		
Events with No Matching MSAs	1,306,151		Product	G;	(c)		W 07.9%
New York, NY PMSA	40,683	4,367.83	Start Month				
Los AngelesLong Beach, CA PMSA	29,681	3,117.97	State		(0)		
Chicago, IL PMSA	25,828	3,122.05	CMSA				
Philadelphia, PA-NJ PMSA	23,012	4,511.33	MSA	E I			
Washington, DCMDVAWV PMSA	16,154	3,281.23	III JA	K		Table of the second sec	
Orange County, CA PMSA	14,517	5,100.33					
Boston, MA-NH PMSA	13,183	3,869.58					
Detroit, MI PMSA	13,126	2,955.27					
Baltimore, MD PMSA	11,758	4,605.57					
ClevelandLorainElyria, OH PMSA	11,510	5,113.58	22 8 8			on deed to be received to	
NassauSuffolk, NY PMSA	11,198	4,066.21		r Values on Ms	Bulavanie II	rand Start	
Houston, TX PMSA	10,767	2,577.29					
Atlanta. GA MSA	9.857	2,397.01					

Figure 20 C

Brandstert share Bs arend Bs state Bs Switch State Switch MSA Copressibed AO MSA	Share CP Tirend CP S	g Share (1) Switch From Share (1) State (1) SP = MSA (1) Addron - Share (1)	Switch Trend© At Trend At Spire
From Class (2) (2) (3) From Product (2) (3) To Class (3) (4) (4) (4) (5) (6) (7) To Product (2) (4) (6) (7)		Start Month 🔯 State 🗘 State 🗘 State State State State State	
Number of Events - Switch STARDMSPRODUCTS STOJALPHAGAN + TIMOLOL MALEATE TIMOLOL MALEATE	ALPHAGAN P + BETIMOL	ALPHAGAN P + BETIMOL + XALATAN	Tabular Form ALPHAGAN P + BETOPTIC-S
TRAVATAN XALATAN			
Number of Evants - Nethambar 16	2		
ALPHAGAN + TIMOLOL MALEATE LPHAGAN + BETOPTIC S ALPHAGAN + T	ALPHAGAN P + BETIMOL IMOPTIC-XE ALPHAGA		TIC-S AGAN P + LEVOBUNC To Products

Figure 20f

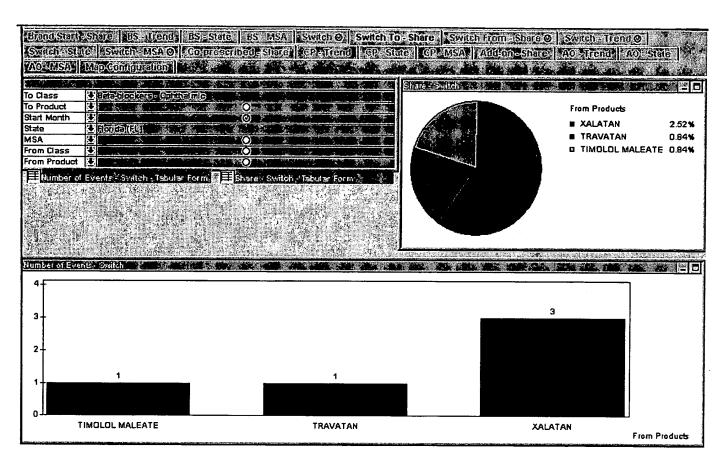


Figure 20g

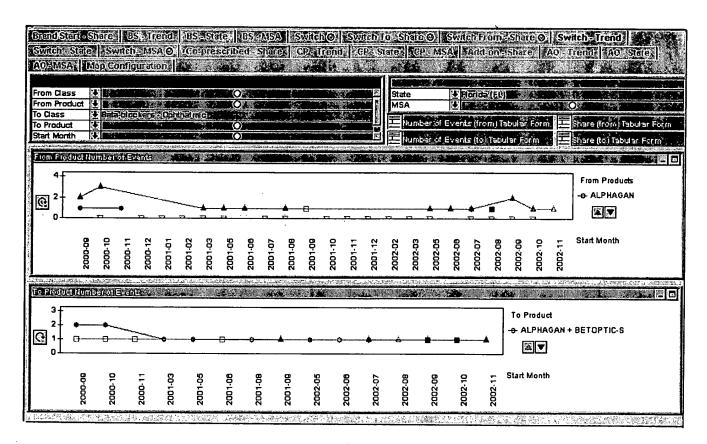


Figure 20h

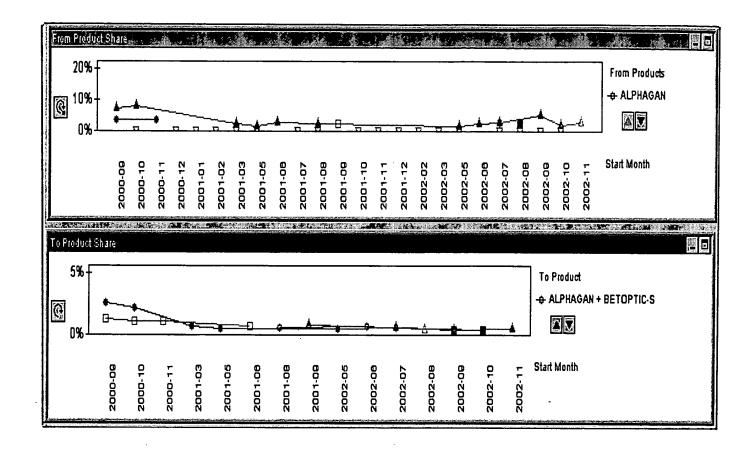
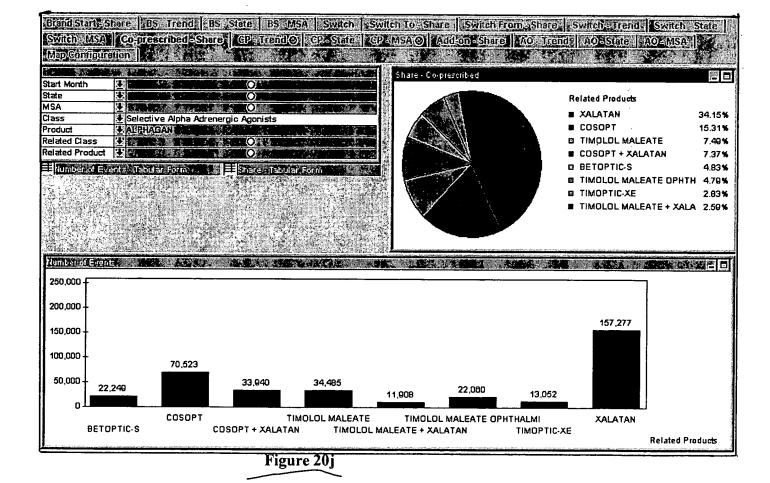


Figure 20i



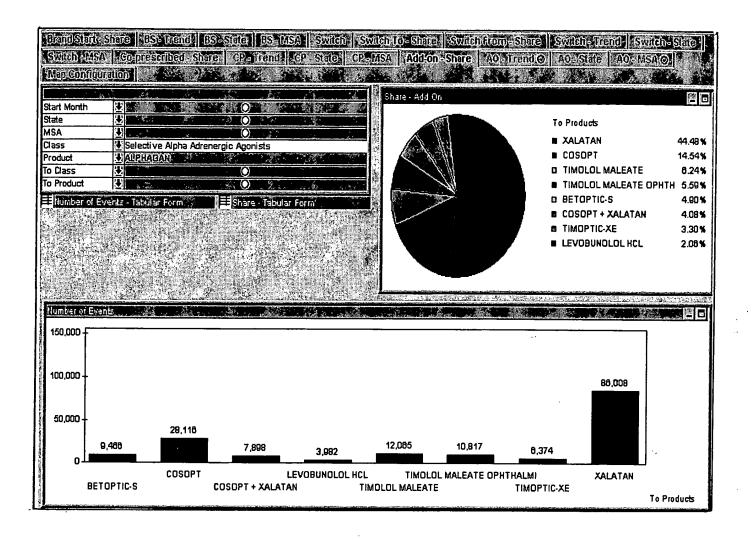


Figure 20 K

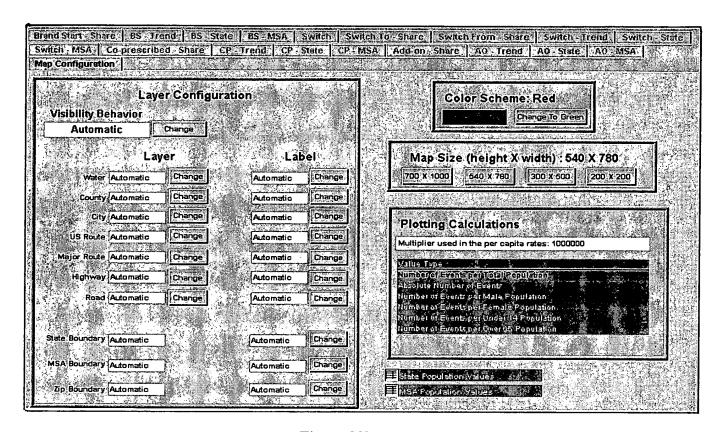


Figure 201

Refresh Study - Antidepressant Refresh Study - Antidepressant Antide	Sulfrank IV. Kell R	View Favorites Iools Lielb	Tametra Company	File Edit View Favorites Tools 1284	
Tet 2003 CREATENDE Antitude ressant Type: Therapy Area Antitude ressant Type: Therapy Area Antitude ressant Type: Therapy Area Refreshet: Wednesday, Aug 20. Estimated Size 4.8 MB Within 50 MB Size Limit At None Desyrel Dividose Serzone Trazodone Hcl Div At None At None At None Trazodone Hcl Div At None Trazodone Hcl Div At None Trazodone Hcl Div) http://scripma	x x x x x x x x x x x x x x x x x x x	Search Search Searches dite/user/faz/edt.cfm?action=	editaviewid-22228ReturnIRI - IDer	
August 2003 Audidepressant Start - Share, Product Trend, Rx Event Trend, State, MSA Thereshert Wednesday, Aug Start - Share, Product Trend, Rx Event Trend, State, MSA Thereshert Wednesday, Aug Start - Share, Product Trend, Rx Event Trend, State, MSA Thereshert Wednesday, Aug Start - Share, Product Trend, Rx Event Trend, State, MSA Thereshert Wednesday, Aug At None Saints At None Desyrel Dividose Serzone Trazodone Hcl Div. Inazodone Hcl Div. Inazodone Hcl Div. Inazodone SSSRIs) At None	Refresh Study	/ · Antidepressant			1
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Figure 21

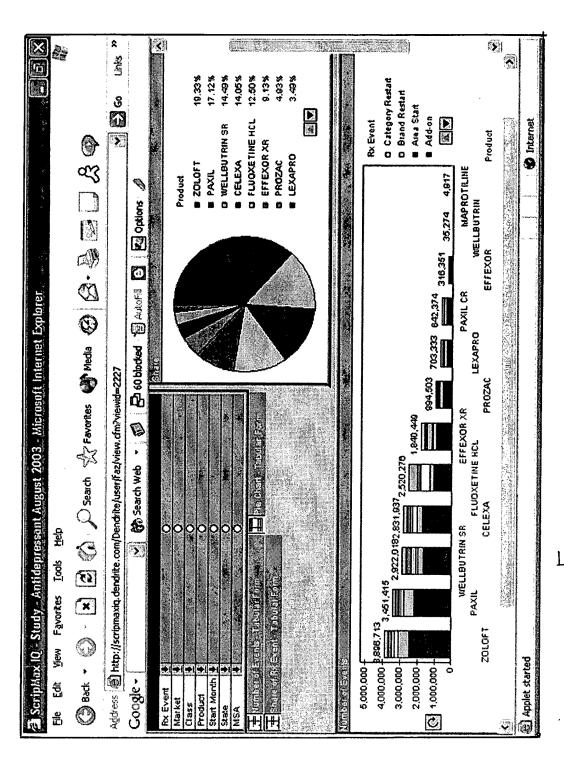


Figure 22

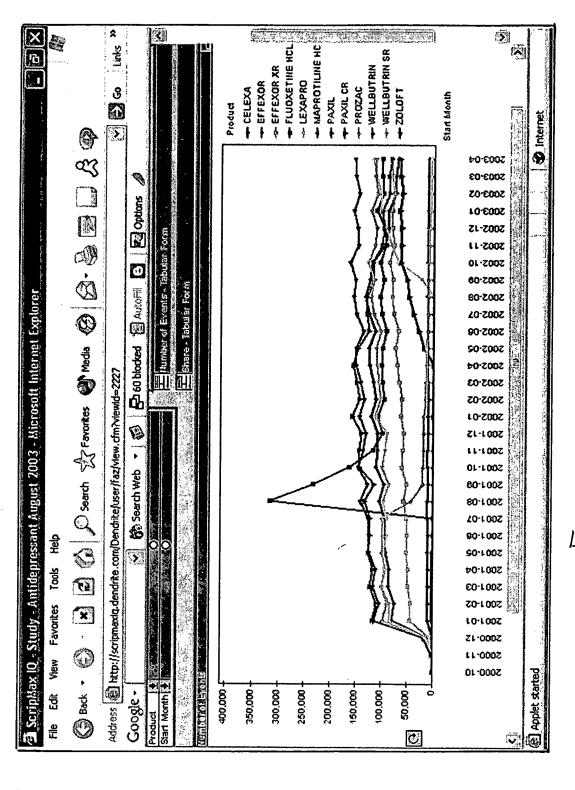


Figure 23

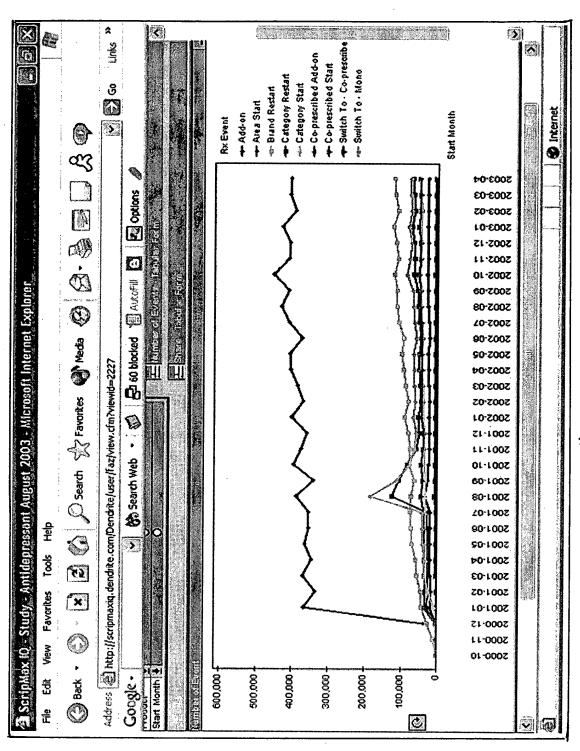
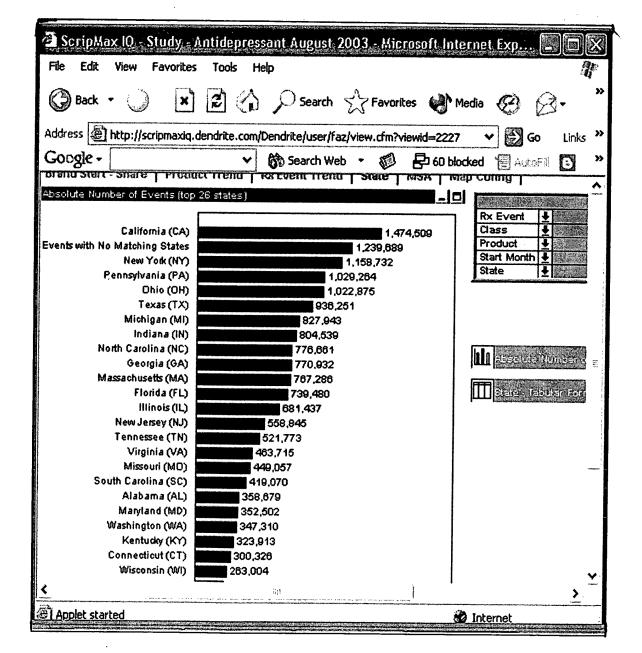


Figure 24

Figure 25



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